

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** June 28, 2005

**Inspector:** Don Ukers

**Location:** 345kV XLPE Component

**Storm/**

**Rain Event:** Between 1.17-2.20" of rain was recorded over 6/23-6/26 with another 0.45-1.76" on 6/28 as reported by NOAA and depending on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	-The jack and bore of East Swamp Brook is accessed from the roadway. A crane pad is in place in order to install the sheet piling in the stream. 6/28/06.	- Equipment is located on both sides of the bore as well as in the adjacent ball park during the day. 6/28/06.	- Not applicable (N/A)
	- No obvious sediment tracking was present on the roadway but ruts were noted in the ballpark yard. 6/20-6/28/06	-Restore ruts in the ballpark when access is complete and monitor tracking on the roadway. 6/20-6/28/06	-N/A
	-The vault near Plumtree Substation continues to be accessed. 5/17-6/28/06	- None at this time. 6/28/06	-N/A
	- Trench work is largely complete along Rt 58. Areas were being restored. 6/28/06	-Continue to place controls on CBs if work will be adjacent. 6/28/06	- N/A
	- A continuous gully/washout along the slope of Whittlesey Dr. was noted due to the heavy rain, adjacent to the new sidewalk. Sediment had also washed out onto the	-The gully formed before vegetation could establish in the recently seeded areas. The area will have to be restored and haybales check dams should be installed to slow	- Needs attention

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>sidewalk down gradient. 6/7-6/28/06</p> <p>-Timber swamp mats were in place at the Hoyts Hill access off Rt. 58. This is not for 345kV XLPE work. 620-6/28/06</p>	<p>run-off velocity. This will likely happen at the completion of the trenchwork. 6/7-6/28/06</p> <p>- Restore the area and remove stone when applicable, following the access needs. Do not access without mats in place. 6/28/06</p>	<p>- Needs attention when work is complete.</p>
Trench and foundation construction	<p>- Work at the jack and bore of East Swamp Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. has resumed. The crane remains in place on the pad on the stream bank. Sheet piling was installed in the 1st half of the stream. Grout was being injected to stabilize the bore. 6/28/06</p> <p>- Sandbags remain all along the bank for stabilization purposes during the work. 6/28/06</p>	<p>-Monitor the work carefully to avoid turbidity or any fill. The stream appeared to be in good condition. 6/28/06</p> <p>- The bank is reinforced well. 6/28/06</p>	<p>-N/A at this time</p> <p>- N/A at this time</p>
	<p>- The area around vault 2a and b was restored. 6/28/06</p> <p>-Active trenchwork and conduit bank installation is largely complete along Rt. 58. 6/28/06</p> <p>-Vaults were being accessed to pull cable between some locations. 5/25-6/28/06</p>	<p>-See EC section for more details. 6/28/06</p> <p>- See EC section for more details. 6/28/06</p> <p>- None at this time. 6/28/06</p>	<p>-Area was restored</p> <p>-N/A</p> <p>- N/A</p>
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<p>- Silt fence was pulled closer to the manholes at vault 2A&amp;B. Adjacent areas were placed with topsoil and mulched and</p>	<p>- Continue to monitor but the restoration efforts were good. 6/28/06</p>	<p>-The area was restored and the portion adjacent to wetlands will revegetate.</p>

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<b>Jack and Bore</b>	<p>will be allowed to revegetate. 6/28/06</p> <p>-Work continues here. The bank is lined and reinforced with sandbags and a boom remains across the stream in an attempt to filter turbidity. Sheet piling is in place around the 1<sup>st</sup> half of the stream. 6/28/06</p> <p>- The crane is on a pad to avoid disturbance to the area above the bank. 6/28/06</p>	<p>-The stream was still running clear at the time. Some very minor turbidity was noted as a result of the sheet piling installation. 6/20-6/28/06</p> <p>- Continue to monitor. 6/28/06</p>	<p>-N/A at the time</p> <p>- N/A</p>
<b>Whittlesey Dr and Judd Ave</b>	<p>- A continuous gully/washout along the slope of Whittlesey Dr. was noted due to the heavy rain, adjacent to the new sidewalk. Sediment had also washed out onto the sidewalk down gradient. 6/7-6/28/06</p>	<p>- The gully formed before vegetation could establish in the recently seeded areas. The area will have to be restored and haybales check dams should be installed to slow run-off velocity. 6/7-6/28/06</p>	<p>- Needs attention This will likely happen when trenchwork is complete</p>
<b>Rt. 58</b>	<p>- All catch basins observed during the inspection and adjacent to work had controls in place. 6/28/06</p>	<p>- Continue to protect CBs adjacent to work as necessary. 6/28/06</p>	<p>- N/A</p>
<b>Hoyts Hill</b>	<p>- Mats were installed at the base of slope at Hoyts Hill. Access is needed for other contractors pulling wire. 6/28/06</p>	<p>-When access needs are complete, restore and allow wetland vegetation to return. All stone will have to be removed carefully. 6/28/06</p>	<p>-N/A until access is done.</p>
Inland Wetland and Watercourse encroachment and mitigation	<p>-Work in East Swamp Brook continues under ACOE clearance. Sheet piling was driven into the stream bed. The bank is reinforced with sandbags. 6/28/06</p>	<p>- Work in the stream should be carefully monitored. It is currently in good condition. 6/28/06</p>	<p>-N/A at this time</p>

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State species of concern, threatened and endangered species	<ul style="list-style-type: none"> <li>-The D&amp;M plan and clearance letter states that state-listed species are not located in this work area.</li> <li>-The wood turtle was noted at Plumtree Substation during the 5/25/06 inspection.</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> <li>-345kV XLPE crews should also be performing daily walkthroughs before moving equipment while working in the vault. Be vigilant when moving equipment. 4/26-6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>-N/A</li> <li>- Crews were informed</li> </ul>
Vegetative clearing limits (including trees to save or danger trees noted)	<ul style="list-style-type: none"> <li>-Gullies had formed in the recently seeded areas adjacent to the sidewalk at the Whittlesey Dr slope. 6/7-6/28/06</li> <li>- Other restored areas had noticeable grass growth. 6/28/06</li> <li>- Vault 2 has been restored with vegetation allowed to return around the manhole and access area. 6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>-See erosion control section. 6/28/06</li> <li>- Continue to monitor for final stabilization. 6/28/06</li> <li>- The area is in good condition. 6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>-Needs attention</li> <li>- N/A</li> <li>- The area was restored</li> </ul>
Dewatering	<ul style="list-style-type: none"> <li>- The dewatering system from well points at the jack and bore had resumed in order to keep the trench workable. 6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>- Continue to use all necessary controls. 6/7-6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> </ul>
Blasting	<ul style="list-style-type: none"> <li>- No blasting is occurring at this work area.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>	<ul style="list-style-type: none"> <li>-N/A</li> </ul>
Soils	<ul style="list-style-type: none"> <li>- Soil had been handled appropriately during the Rt 58 trenchwork and the work sites were clean and contained. 6/28/06</li> <li>- Topsoil remains stripped and stockpiled at the contractor yard. 3/15-6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. 6/28/06</li> <li>- None at this time. Controls are well installed here. 3/15-6/28/06</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> <li>-N/A</li> </ul>
Spills and Material Storage Areas	<ul style="list-style-type: none"> <li>- Equipment should be stored overnight up to 100ft or as far from</li> </ul>	<ul style="list-style-type: none"> <li>- Report spills immediately, even if they are being controlled.</li> </ul>	<ul style="list-style-type: none"> <li>-N/A at the time</li> </ul>

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	resource areas where practicable. 1/19-6/28/06  - Environmentally safe, biodegradable hydraulic oil was being used in the generator on site of the jack and bore. 6/28/06	- Any fuels and agents not in use should be covered and stored before leaving for the day. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.	

**Next likely scheduled inspection:**

Wednesday July 5, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:** Diana Walden for Don Ukers



345kV XLPE: Photo shows the sheet piling in place across half of the stream in an attempt to divert the water above the bore. The stream remains in good condition at this time. 6/28/06



Photo shows the mats in the wetland area off Rt 58 for machinery access to pull wire in another section of the project. Once access is complete, 345kV XLPE crews will be restoring this area. The remainder of the slope is very well vegetated. 6/28/06